



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,300	09/08/2003	Eric Stephen Mattis	030296	2134

23696 7590 04/12/2005

Qualcomm Incorporated
Patents Department
5775 Morehouse Drive
San Diego, CA 92121-1714

EXAMINER

PRESTON, ERIK D

ART UNIT	PAPER NUMBER
----------	--------------

2834

DATE MAILED: 04/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/658,300	Applicant(s) MATTIS ET AL.	
	Examiner Erik D. Preston	Art Unit 2834	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>1/10/05</u> . | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Specification

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Objections

Claims 10 & 11 recite the limitation "the conductor" in their second lines. There is insufficient antecedent basis for this limitation in the claim because a conductor was not previously mentioned in claim 1. For examination purposes these claims will be interpreted as: "...a conductor..."

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, & 9-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Kumasaka et al. (US 2002/0034152).

With respect to claim 1, Kumasaka teaches an apparatus for providing electrical coupling (Fig. 1) comprising: A motor (Fig. 2, #13) having a hollow, rotational shaft (Fig. 2, #12), for allowing electrical signals to pass there through (Paragraph 70, Lines 1-3).

With respect to claim 2, Kumasaka teaches the apparatus of claim 1, wherein said shaft comprises a conductor (Fig. 2, #31), the shaft for conducting electrical signals through said motor.

With respect to claim 3, Kumasaka teaches an apparatus of claim 1, further comprising an electrical conductor located within said shaft for providing said electrical signals through said motor.

With respect to claim 4, Kumasaka teaches the apparatus of claim 3 wherein the electrical conductor comprises a coaxial cable (Paragraph 70, Line 1).

With respect to claim 5, Kumasaka teaches the apparatus of claim 3 wherein the electrical conductor comprises a rotational coupler (Fig. 3, #61).

With respect to claim 6, Kumasaka teaches the apparatus of claim 3 wherein the electrical conductor comprises a wire.

With respect to claim 9, Kumasaka teaches the apparatus of claim 1, further comprising a rotational coupler (Fig. 3, #61) for coupling said electrical signals between a second conductor (Fig. 3, #36) and the conductor.

With respect to claim 10, Kumasaka teaches the apparatus of claim 1, further comprising a platform (Fig. 1, #16) connected to the shaft, wherein the conductor (Fig.

Art Unit: 2834

3, #36) is fixed with respect to the shaft. As the shaft rotates, the conductor will remain in a fixed position with the respect of the shaft because it is directly connected to the shaft.

With respect to claim 11, Kumasaka teaches the apparatus of claim 1, further comprising a platform (Fig. 1, #16) connected to the shaft by means of a pipe (Fig. 6, #62) wherein the conductor is affixed to the shaft and rotates therewith (Paragraph 72, Lines 8 & 9).

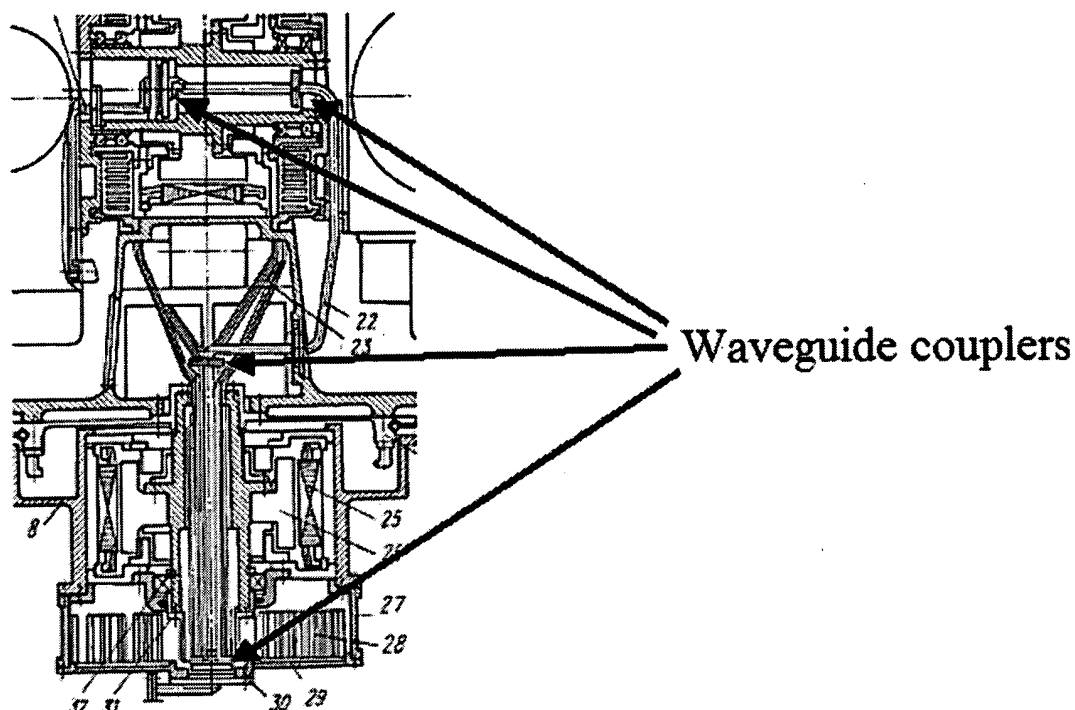
With respect to claim 12, Kumasaka teaches the apparatus of claim 3, wherein the coaxial cable comprises an outer conductor (Fig. 3, #31b), a dielectric (the inherently existing insulating layer between the conductors of all coaxial cables), and a center conductor (Fig. 3, #31a), wherein the dielectric and the center conductor are fixed together, and the outer conductor is fixed to said shaft.

With respect to claim 13, Kumasaka teaches the apparatus of claim 1, wherein said shaft comprises a dielectric material (Fig. 3, #62) within said shaft and affixed thereto; and a center conductor (Fig. 3, #31a) within said dielectric material.

Claims 7 & 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Belyanskii et al. (RU 2165582 C2).

With respect to claim 7, Belyanskii teaches an apparatus for providing electrical coupling (Fig. 2) comprising: A motor (Fig. 1, #2) having a hollow, rotational shaft (Fig. 2, #31) for allowing electrical signals to pass there through wherein the shaft comprises a waveguide (Fig. 2, #22)

With respect to claim 8, Belyanskii teaches the apparatus of claim 7, wherein the shaft additionally comprises a waveguide coupler (See bellow diagram).



Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 6655638, US 2003/0127939, and US 2004/0149064.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erik D. Preston whose telephone number is (571)272-8393. The examiner can normally be reached on Monday through Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571)272-2044. The fax phone

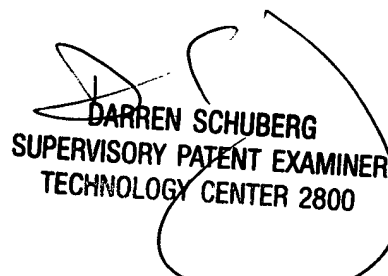
Art Unit: 2834

number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



04/07/2005



DARREN SCHUBERG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800